

MAJOR SOURCE OPERATING PERMIT

Permittee: **Dal-Tile Corporation**

Facility Name: **Dal-Tile Corporation**

Facility No.: 404-0007

Location: Fayette, Alabama

In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, Ala. Code §§22-28-1 to 22-28-23, as amended, the Alabama Environmental Management Act, Ala. Code §§22-22A-1 to 22-22A-17, as amended, and rules and regulations adopted there under, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.

*Pursuant to the **Clean Air Act of 1990**, all conditions of this permit are federally enforceable by EPA, the Alabama Department of Environmental Management, and citizens in general. Those provisions which are not required under the **Clean Air Act of 1990** are considered to be state permit provisions and are not federally enforceable by EPA and citizens in general. Those provisions are contained in separate sections of this permit.*

Issuance Date: *DRAFT*

Effective Date: *DRAFT*

Expiration Date: *DRAFT*

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<p>1. <u>Transfer</u></p> <p>This permit is not transferable, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to another, or from one person to another, except as provided in Rule 335-3-16-.13(1)(a)5.</p>	Rule 335-3-16-.02(6)
<p>2. <u>Renewals</u></p> <p>An application for permit renewal shall be submitted at least six (6) months, but not more than eighteen (18) months, before the date of expiration of this permit.</p> <p>The source for which this permit is issued shall lose its right to operate upon the expiration of this permit unless a timely and complete renewal application has been submitted within the time constraints listed in the previous paragraph.</p>	Rule 335-3-16-.12(2)
<p>3. <u>Severability Clause</u></p> <p>The provisions of this permit are declared to be severable and if any section, paragraph, subparagraph, subdivision, clause, or phrase of this permit shall be adjudged to be invalid or unconstitutional by any court of competent jurisdiction, the judgment shall not affect, impair, or invalidate the remainder of this permit, but shall be confined in its operation to the section, paragraph, subparagraph, subdivision, clause, or phrase of this permit that shall be directly involved in the controversy in which such judgment shall have been rendered.</p>	Rule 335-3-16-.05(e)
<p>4. <u>Compliance</u></p> <p>(a) The permittee shall comply with all conditions of ADEM Admin. Code 335-3. Noncompliance with this permit will constitute a violation of the Clean Air Act of 1990 and ADEM Admin. Code 335-3 and may result in an enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application by the permittee.</p> <p>(b) The permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.</p>	<p>Rule 335-3-16-.05(f)</p> <p>Rule 335-3-16-.05(g)</p>

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<p>5. <u>Termination for Cause</u></p> <p>This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance will not stay any permit condition.</p>	Rule 335-3-16-.05(h)
<p>6. <u>Property Rights</u></p> <p>The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.</p>	Rule 335-3-16-.05(i)
<p>7. <u>Submission of Information</u></p> <p>The permittee must submit to the Department, within 30 days or for such other reasonable time as the Department may set, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon receiving a specific request, the permittee shall also furnish to the Department copies of records required to be kept by this permit.</p>	Rule 335-3-16-.05(j)
<p>8. <u>Economic Incentives, Marketable Permits, and Emissions Trading</u></p> <p>No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.</p>	Rule 335-3-16-.05(k)
<p>9. <u>Certification of Truth, Accuracy, and Completeness:</u></p> <p>Any application form, report, test data, monitoring data, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.</p>	Rule 335-3-16-.07(a)

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<p>10. <u>Inspection and Entry</u></p> <p>Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized representatives of the Alabama Department of Environmental Management and EPA to conduct the following:</p> <ul style="list-style-type: none"> (a) Enter upon the permittee’s premises where a source is located or emissions-related activity is conducted, or where records must be kept pursuant to the conditions of this permit; (b) Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit; (c) Inspect, at reasonable times, this facility’s equipment (including monitoring equipment and air pollution control equipment), practices, or operations regulated or required pursuant to this permit; (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements. 	<p>Rule 335-3-16-.07(b)</p>
<p>11. <u>Compliance Provisions</u></p> <ul style="list-style-type: none"> (a) The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance. (b) The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit. 	<p>Rule 335-3-16-.07(c)</p>
<p>12. <u>Compliance Certification</u></p> <p>A compliance certification shall be submitted annually no later than December 30th of each calendar year.</p> <ul style="list-style-type: none"> (a) The compliance certification shall include the following: <ul style="list-style-type: none"> (1) The identification of each term or condition of this permit that is the basis of the certification; (2) The compliance status; 	<p>Rule 335-3-16-.07(e)</p>

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<p>(3) The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-16-.05(c) (Monitoring and Recordkeeping Requirements);</p> <p>(4) Whether compliance has been continuous or intermittent;</p> <p>(5) Such other facts as the Department may require to determine the compliance status of the source;</p> <p>(b) The compliance certification shall be submitted to:</p> <p style="text-align: center;">Alabama Department of Environmental Management Air Division P.O. Box 301463 Montgomery, AL 36130-1463</p> <p style="text-align: center;">and to:</p> <p style="text-align: center;">Air Enforcement & Toxics Branch EPA Region 4 61 Forsyth Street, SW Atlanta, GA 30303</p> <p>13. <u>Reopening for Cause</u></p> <p>Under any of the following circumstances, this permit will be reopened prior to the expiration of the permit:</p> <p>(a) Additional applicable requirements under the Clean Air Act of 1990 become applicable to the permittee with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire.</p> <p>(b) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into this permit.</p>	<p>Rule 335-3-16-.13(5)</p>

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<p>(c) The Department or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.</p> <p>(d) The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.</p>	
<p>14. <u>Additional Rules and Regulations</u></p> <p>This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.</p>	<p>§22-28-16(d), <u>Code of Alabama 1975</u>, as amended</p>
<p>15. <u>Equipment Maintenance or Breakdown</u></p> <p>(a) In the case of shutdown of air pollution control equipment (which operates pursuant to any permit issued by the Director) for necessary scheduled maintenance, the intent to shut down such equipment shall be reported to the Director at least twenty-four (24) hours prior to the planned shutdown, unless such shutdown is accompanied by the shutdown of the source which such equipment is intended to control. Such prior notice shall include, but is not limited to the following:</p> <ol style="list-style-type: none"> (1) Identification of the specific facility to be taken out of service as well as its location and permit number; (2) The expected length of time that the air pollution control equipment will be out of service; (3) The nature and quantity of emissions of air contaminants likely to occur during the shutdown period; (4) Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period; (5) The reasons that it would be impossible or impractical to shut down the source operation during the maintenance period. 	<p>Rule 335-3-1-.07(1), (2)</p>

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<p>(b) In the event that there is a breakdown of equipment or upset of process in such a manner as to cause, or is expected to cause, increased emissions of air contaminants which are above an applicable standard, the person responsible for such equipment shall notify the Director within 24 hours or the next working day and provide a statement giving all pertinent facts, including the estimated duration of the breakdown. The Director shall be notified when the breakdown has been corrected.</p>	
<p>16. <u>Operation of Capture and Control Devices</u></p> <p>All air pollution control devices and capture systems for which this permit is issued shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established.</p>	<p>§22-28-16(d), <u>Code of Alabama 1975</u>, as amended</p>
<p>17. <u>Obnoxious Odors</u></p> <p>This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible.</p>	<p>Rule 335-3-1-.08</p>
<p>18. <u>Fugitive Dust</u></p> <p>(a) Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.</p> <p>(b) Plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne. A minimum of one, or a combination, of the following methods shall be utilized to minimize airborne dust from plant or haul roads and grounds:</p> <p>(1) By the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic;</p> <p>(2) By reducing the speed of vehicular traffic to a point below that at which dust emissions are created;</p>	<p>Rule 335-3-4-.02</p>

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<p>(3) By paving;</p> <p>(4) By the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions; or</p> <p>Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be approved by the Department prior to utilization.</p>	
<p>19. <u>Additions and Revisions</u></p> <p>Any modifications to this source shall comply with the modification procedures in Rules 335-3-16-.13 or 335-3-16-.14.</p>	<p>Rule 335-3-16-.13 and .14</p>
<p>20. <u>Recordkeeping Requirements</u></p> <p>(a) Records of required monitoring information of the source shall include the following:</p> <p>(1) The date, place, and time of all sampling or measurements;</p> <p>(2) The date analyses were performed;</p> <p>(3) The company or entity that performed the analyses;</p> <p>(4) The analytical techniques or methods used;</p> <p>(5) The results of all analyses; and</p> <p>(6) The operating conditions that existed at the time of sampling or measurement.</p> <p>(b) Retention of records of all required monitoring data and support information of the source for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by the permit</p>	<p>Rule 335-3-16-.05(c)2.</p>

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<p>21. <u>Reporting Requirements</u></p> <p>(a) Reports to the Department of any required monitoring shall be submitted at least every 6 months. All instances of deviations from permit requirements must be clearly identified in said reports. All required reports must be certified by a responsible official consistent with Rule 335-3-16-.04(9).</p> <p>(b) Deviations from permit requirements shall be reported within 48 hours or 2 working day of such deviations, including those attributable to upset conditions as defined in the permit. The report will include the probable cause of said deviations, and any corrective actions or preventive measures that were taken.</p>	<p>Rule 335-3-16-.05(c)3.</p>
<p>22. <u>Emission Testing Requirements</u></p> <p>Each point of emission which requires testing will be provided with sampling ports, ladders, platforms, and other safety equipment to facilitate testing performed in accordance with procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be amended or revised.</p> <p>The Air Division must be notified in writing at least 10 days in advance of all emission tests to be conducted and submitted as proof of compliance with the Department's air pollution control rules and regulations.</p> <p>To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:</p> <p>(a) The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests.</p> <p>(b) A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedures require probe cleaning).</p> <p>(c) A description of the process(es) to be tested including the feed rate, any operating parameters used to control or influence the operations, and the rated capacity.</p>	<p>Rule 335-3-1-.05(3) and Rule 335-3-1-.04(1)</p> <p>Rule 335-3-1-.04</p>

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<p>(d) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.</p> <p>A pretest meeting may be held at the request of the source owner or the Air Division. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis.</p> <p>All test reports must be submitted to the Air Division within 30 days of the actual completion of the test unless an extension of time is specifically approved by the Air Division.</p>	
<p>23. <u>Payment of Emission Fees</u></p> <p>Annual emission fees shall be remitted each year according to the fee schedule in ADEM Admin. Code r. 335-1-7-.04.</p>	Rule 335-1-7-.04
<p>24. <u>Other Reporting and Testing Requirements</u></p> <p>Submission of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require emission testing at any time.</p>	Rule 335-3-1-.04(1)
<p>25. <u>Title VI Requirements (Refrigerants)</u></p> <p>Any facility having appliances or refrigeration equipment, including air conditioning equipment, which use Class I or Class II ozone-depleting substances as listed in 40 CFR Part 82, Subpart A, Appendices A and B, shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82, Subpart F.</p> <p>No person shall knowingly vent or otherwise release any Class I or Class II substance into the environment during the repair, servicing, maintenance, or disposal of any device except as provided in 40 CFR Part 82, Subpart F.</p> <p>The responsible official shall comply with all reporting and recordkeeping requirements of 40 CFR §82.166. Reports shall be submitted to the US EPA and the Department as required.</p>	40 CFR Part 82
<p>26. <u>Chemical Accidental Prevention Provisions</u></p>	

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<p>If a chemical listed in Table 1 of 40 CFR §68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1, then:</p> <p>(a) The owner or operator shall comply with the provisions in 40 CFR Part 68.</p> <p>(b) The owner or operator shall submit one of the following:</p> <p>(1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in §68.10(a) or,</p> <p>(2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan.</p>	40 CFR Part 68
<p>27. <u>Display of Permit</u></p> <p>This permit shall be kept under file or on display at all times at the site where the facility for which the permit is issued is located and will be made readily available for inspection by any or all persons who may request to see it.</p>	Rule 335-3-14-.01(1)(d)
<p>28. <u>Circumvention</u></p> <p>No person shall cause or permit the installation or use of any device or any means which, without resulting in reduction in the total amount of air contaminant emitted, conceals or dilutes any emission of air contaminant which would otherwise violate the Division 3 rules and regulations.</p>	Rule 335-3-1-.10
<p>29. <u>Visible Emissions</u></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.</p>	Rule 335-3-4-.01(1)

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<p>30. <u>Fuel-Burning Equipment</u></p> <p>(a) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge particulate emissions in excess of the emissions specified in Rule 335-3-4-.03.</p> <p>(b) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge sulfur dioxide emissions in excess of the emissions specified in Rule 335-3-5-.01.</p>	<p>Rule 335-3-4-.03</p> <p>Rule 335-3-5-.01</p>
<p>31. <u>Process Industries – General</u></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, no process may discharge particulate emissions in excess of the emissions specified in Rule 335-3-4-.04.</p>	<p>Rule 335-3-4-.04</p>
<p>32. <u>Averaging Time for Emission Limits</u></p> <p>Unless otherwise specified in the permit, the averaging time for the emission limits listed in this permit shall be the nominal time required by the specific test method.</p>	<p>Rule 335-3-1-.05</p>
<p>33. <u>Compliance Assurance Monitoring (CAM)</u></p> <p>Conditions (a) through (d) that follow are general conditions applicable to emissions units that are subject to the CAM requirements. Specific requirements related to each emissions unit are contained in the unit specific provisos and the attached CAM appendices.</p> <p>(a) <u>Operation of Approved Monitoring</u></p> <p>(1) <i>Commencement of operation.</i> The owner or operator shall conduct the monitoring required under this section and detailed in the unit specific provisos and CAM appendix of this permit (if required) upon issuance of the permit, or by such later date specified in the permit pursuant to §64.6(d).</p> <p>(2) <i>Proper maintenance.</i> At all times, the owner or operator shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.</p> <p>(3) <i>Continued operation.</i> Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and</p>	<p>40 CFR 64</p> <p>40 CFR 64.7</p>

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<p>required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.</p> <p>(4) <i>Response to excursions or exceedances.</i> (a) Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable. (b) Determination of whether the owner or operator has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.</p>	

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<p>(5) <i>Documentation of need for improved monitoring.</i> After approval of monitoring under this part, if the owner or operator identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the owner or operator shall promptly notify the Department and, if necessary, submit a proposed modification to the permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.</p> <p>(b) Quality Improvement Plan (QIP) Requirements</p> <p>(1) Based on the results of a determination made under Section 33(a)(4)(b) above, the Administrator or the permitting authority may require the owner or operator to develop and implement a QIP. Consistent with 40 CFR §64.6(c)(3), the permit may specify an appropriate threshold, such as an accumulation of exceedances or excursions exceeding 5 percent duration of a pollutant-specific emissions unit's operating time for a reporting period, for requiring the implementation of a QIP. The threshold may be set at a higher or lower percent or may rely on other criteria for purposes of indicating whether a pollutant-specific emissions unit is being maintained and operated in a manner consistent with good air pollution control practices.</p> <p>(2) Elements of a QIP:</p> <ul style="list-style-type: none"> a. The owner or operator shall maintain a written QIP, if required, and have it available for inspection. b. The plan initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the owner or operator shall modify the plan to include procedures for conducting one or more of the following actions, as appropriate: <ul style="list-style-type: none"> i. Improved preventive maintenance practices. 	<p>40 CFR 64.8</p>

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<ul style="list-style-type: none"> ii. Process operation changes. iii. Appropriate improvements to control methods. iv. Other steps appropriate to correct control performance. v. More frequent or improved monitoring (only in conjunction with one or more steps under paragraphs (2)(b)(i) through (iv) above). <p>(3) If a QIP is required, the owner or operator shall develop and implement a QIP as expeditiously as practicable and shall notify the Department if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.</p> <p>(4) Following implementation of a QIP, upon any subsequent determination pursuant to Section 33(a)(4)(b) above, the Department may require that an owner or operator make reasonable changes to the QIP if the QIP is found to have:</p> <ul style="list-style-type: none"> a. Failed to address the cause of the control device performance problems; or b. Failed to provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. <p>(5) Implementation of a QIP shall not excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act.</p> <p>(c) Reporting and Recordkeeping Requirements</p> <p>(1) <i>General reporting requirements.</i></p> <ul style="list-style-type: none"> a. On and after the date specified in Section 33(a)(1) above by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring 	<p>40 CFR 64.9</p>

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<p>reports to the permitting authority in accordance with ADEM Admin. Code r. 335-3-16-.05(c)3.</p> <p>b. A report for monitoring under this part shall include, at a minimum, the information required under ADEM Admin. Code r. 335-3-16-.05(c)3. and the following information, as applicable:</p> <ul style="list-style-type: none"> i. Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken; ii. Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and iii. A description of the actions taken to implement a QIP during the reporting period as specified in Section 33(b) above. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring. <p>(2) <i>General recordkeeping requirements.</i></p> <ul style="list-style-type: none"> a. The owner or operator shall comply with the recordkeeping requirements specified in ADEM Admin. Code r. 335-3-16-.05(c)2.. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to Section 33(b) above and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under this part (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). 	

General Permit Provisos

Federally Enforceable Provisos	Regulations
shall comply with the reporting requirements under ADEM Admin. Code r. 335-3-1-.15.	

Summary Page for Tunnel Kilns

Permitted

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
7 & 8	Tunnel Kiln #1 and Tunnel Kiln #2 small exhaust stacks	PM	Lesser of: 2.5 lb/hr for each kiln or $E=3.59P^{0.62}$	Rule 335-3-14-.04 [Anti-PSD] Rule 335-3-4-.04(1)
7 & 8	Tunnel Kiln #1 and Tunnel Kiln #2 small exhaust stacks	PM/Non-Hg HAP Metals	PM Limit of 0.37 lb/ton of brick fired Or 0.0021 gr/dscf at 17% O ₂ Or Non-Hg Metals Limit of 0.11 lb/hr	40 CFR 63 Subpart JJJJJ Table 1 40 CFR §63.8405(a) Table 1
7 & 8	Tunnel Kiln #1 and Tunnel Kiln #2 small exhaust stacks	HF, HCl & Cl ₂	57 lb (HCl equivalent)/hr from collection of all kilns	40 CFR §63.8405(a) Table 1
7 & 8	Tunnel Kiln #1 and Tunnel Kiln #2 small exhaust stacks	Hg	0.00033 lb/ton of brick fired or 91µg/dscm at 17% O ₂ or 0.0019 lb/hr	40 CFR §63.8405(a) Table 1
7 & 8	Tunnel Kiln #1 and Tunnel Kiln #2 small exhaust stacks	Opacity	0%	40 CFR 63 Subpart JJJJJ Table 2 and Table 6
9	Tunnel Kiln #1 and Tunnel Kiln #2 combined large stack	PM	Lesser of: 2.5 lb/hr for each kiln or $E=3.59P^{0.62}$	Rule 335-3-14-.04 [Anti-PSD] Rule 335-3-4-.04(1)

9	Tunnel Kiln #1 and Tunnel Kiln #2 combined large stack	PM/Non-Hg HAP Metals	PM Limit of 0.37 lb/ton of brick fired Or 0.0021 gr/dscf at 17% O ₂ Or Non-Hg Metals Limit of 0.11 lb/hr	40 CFR 63 Subpart JJJJ Table 1 40 CFR §63.8405(a) Table 1
9	Tunnel Kiln #1 and Tunnel Kiln #2 combined large stack	HF, HCl & Cl ₂	57 lb (HCl equivalent)/hr from collection of all kilns	40 CFR §63.8405(a) Table 1
9	Tunnel Kiln #1 and Tunnel Kiln #2 combined large stack	Hg	0.00033 lb/ton of brick fired or 91µg/dscm at 17% O ₂ or 0.0019 lb/hr	40 CFR §63.8405(a) Table 1
9	Tunnel Kiln #1 and Tunnel Kiln #2 combined large stack	Opacity	0%	40 CFR 63 Subpart JJJJ Table 2 and Table 6

Provisos for Tunnel Kilns

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-03, <i>"Major Source Operating Permits"</i> .	Rule 335-3-16-.03
2. These sources are subject to ADEM Admin. Code r. 335-3-4-.01(1), <i>"Control of Particulate Emissions – Visible Emissions"</i> .	Rule 335-3-4-.01(1)
3. These sources are subject to ADEM Admin. Code r. 335-3-4-.04(1), <i>"Control of Particulate Emissions for Process Industries - General"</i> .	Rule 335-3-4-.04(1)
4. These sources have enforceable limits in place in order to prevent them from being subject to the provisions of ADEM Admin Code r. 335-3-14-.04, <i>"Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]"</i> .	Rule 335-3-14-.04 [Anti-PSD]
5. These sources are subject to the applicable requirements in 40 CFR 63 Subpart JJJJJ, <i>"National Emission Standards for Hazardous Air Pollutants for Brick and Structural Clay Products Manufacturing"</i> .	40 CFR §63.8385
6. These sources are subject to the applicable requirements in 40 CFR 63 Subpart A, <i>"General Provisions"</i> as listed in Table 10 of Subpart JJJJJ.	40 CFR §63.8505
<u>Emission Standards</u>	
1. The particulate matter emission rate from each kiln shall not exceed the lesser of 2.5 lb/hr or the allowable set by the equations in ADEM Admin. Code r. 335-3-4-.04(1).	Rule 335-3-14-.04 [Anti-PSD] Rule 335-3-4-.04
2. Natural gas shall be the exclusive fuel for the tunnel kilns.	Rule 335-3-14-.04 [Anti-PSD]
3. The facility shall maintain no visible emissions from the tunnel kiln stacks.	40 CFR 63 Subpart JJJJJ, Table 2 and Table 6
4. The particulate matter emission rate from each kiln shall not exceed 0.37 lb/ton of brick fired.	40 CFR §63.8405(a) 40 CFR 63 Subpart JJJJJ, Table 1
5. HF, HCl, and Cl ₂ emissions shall not exceed 57 lb (HCl equivalent)/hr from the collection of all kilns located at this facility.	40 CFR §63.8405(a) 40 CFR 63 Subpart JJJJJ, Table 1

Federally Enforceable Provisos	Regulations
6. The mercury (Hg) emission rate from each kiln shall not exceed 0.00033 lb/ton of brick fired <u>or</u> 0.0019 lb/hr.	40 CFR §63.8405(a) 40 CFR 63 Subpart JJJJJ, Table 1
7. The non-Hg HAP metal emission rate from each kiln shall not exceed 0.11 lb/hr, as an alternative to meeting the 0.37 lb/ton of brick fired limit on PM emissions.	40 CFR §63.8405(a) 40 CFR 63 Subpart JJJJJ, Table 1
8. These sources are subject to the emissions limits in Table 1, operating limits in Table 2, and work practice standards in Table 3 to Subpart JJJJJ of Part 63.	40 CFR §63.8405
<u>Compliance and Performance Test Methods and Procedures</u>	
1. Method 5 of 40 CFR Part 60, Appendix A, shall be used in the determination of particulate matter emissions.	40 CFR 63 Subpart JJJJJ, Table 4 Rule 335-3-1-.05
2. Method 9 of 40 CFR Part 60, Appendix A, shall be used in the determination of the opacity.	Rule 335-3-1-.05
3. Method 26A or Method 320 of 40 CFR Part 60, Appendix A, shall be used in the determination of hydrogen halide and halogen emissions.	40 CFR 63 Subpart JJJJJ, Table 4 Rule 335-3-1-.05
4. Method 26A or Method 320 of 40 CFR Part 60, Appendix A, shall be used in the determination of hydrogen chloride emissions.	40 CFR 63 Subpart JJJJJ, Table 4 Rule 335-3-1-.05
5. Method 29 of 40 CFR Part 60, Appendix A shall be used in the determination of metals emissions.	40 CFR 63 Subpart JJJJJ, Table 4 Rule 335-3-1-.05
6. The Permittee shall comply with the performance testing procedures in §63.8445 of Subpart JJJJJ.	40 CFR §63.8445
<u>Emission Monitoring</u>	
1. An observation of each emission point associated with the tunnel kilns will be accomplished at least daily according to the procedures of Method 22 of 40 CFR Part 60, Appendix A-7. If any visible emissions are observed during the above-referenced visual checks, a Method 9 visible emission observation shall be completed. If opacity greater than 10 percent is observed, the facility must initiate and complete corrective action according to their OM&M plan.	40 CFR §63.8470(e) Rule 335-3-16-.05(c)

Federally Enforceable Provisos**Regulations**

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| <p>(a) The facility must conduct the Method 22 test while the tunnel kilns are operating under normal conditions for a minimum of 15 minutes.</p> <p>(b) If any visible emissions are observed during any daily check, a Method 9 visible emission observation shall be completed. If opacity greater than 10 percent is observed, the facility must initiate and complete corrective action according to their OM&M plan.</p> <p>(c) The facility may decrease the frequency of the Method 22 testing from daily to weekly for the tunnel kiln stacks if one of the conditions below is met.</p> <ul style="list-style-type: none">i. If no visible emissions are observed in 30 consecutive daily Method 22 checks for any tunnel kiln stack.ii. If no opacity greater than 10 percent (10%) is observed during any of the Method 9 visible emission observations for any kiln stack. <p>(d) If visible emissions are observed during any weekly check and opacity greater than 10 percent (10%) is observed in the subsequent Method 9 visible emission observation, the facility must promptly initiate and complete corrective action according to their OM&M plan, resume testing of the kiln stack following Method 22 of 40 CFR Part 60, Appendix A-7, on a daily basis, and maintain that schedule until one of the conditions in proviso (c)(i) or (c)(ii) above is met, at which time the facility may again decrease the frequency of Method 22 testing to a weekly basis.</p> <p>(e) If greater than 10 percent (10%) opacity is observed during any test conducted using Method 9, the facility must report these deviations by following the requirements in §63.8485.</p> | |
| <p>2. The facility must prepare and implement a written operation, maintenance, and monitoring (OM&M) plan according to the requirements in §63.8425.</p> | 40 CFR §63.8420(c) |
| <p>3. A performance test must be conducted before renewing the facility's 40 CFR Part 70 operating permit or at least every 5 years following the initial performance test, as well as when an operating limit parameter value is being revised.</p> | 40 CFR §63.8440(a) |

Federally Enforceable Provisos	Regulations
<p>4. The facility must minimize dioxin/furan emissions by implementing the following requirements from Table 3 of 40 CFR 63 Subpart JJJJJ:</p> <p>(a) Maintain and inspect the burners and associated combustion controls.</p> <p>(b) Tune the specific burner type to optimize combustion.</p>	40 CFR 63 Subpart JJJJJ, Table 3
5. The facility must minimize HAP emissions, including during periods of startup and shutdown, by following the requirements in Table 3 and Table 6 of 40 CFR 63 Subpart JJJJJ.	40 CFR 63 Subpart JJJJJ, Table 3 and Table 6
6. The facility shall maintain the kiln process rate at or below the kiln process rate determined according to §63.8445(g)(1).	40 CFR 63 Subpart JJJJJ, Table 2
7. The Permittee shall demonstrate continuous compliance with each applicable emission limit and work practice standard according to Table 6 to Subpart JJJJJ of Part 63.	40 CFR §63.8470
<u>Recordkeeping and Reporting Requirements</u>	
1. The facility shall maintain a record of all inspections, to include visible emissions checks, Method 9 observations, problems noted, and corrective actions taken, performed to satisfy the requirements of periodic monitoring. Each record shall be maintained in a form suitable for inspection for a period of at least five (5) years.	Rule 335-3-16-.05(c)
2. The facility shall maintain records documenting use of natural gas.	Rule 335-3-14-.04 [Anti-PSD]
3. The facility shall keep records according to the requirements of §63.8490.	40 CFR §63.8490
4. The facility shall submit a written report containing statements and information concerning emission limitation (emission limits, operating limits) deviations, out of control CMS, period or startup, shutdown, or malfunction to the Department semi-annually.	40 CFR §63.8485 (c), (d), & (e) 40 CFR 63 Subpart JJJJJ, Table 9
5. A semi-annual monitoring report stating any exceedances of stack opacity and any deviations from work practice standards or, if there are no deviations, a statement that there were no deviations, shall be submitted to the Department within sixty (60) days of the end of each semi-annual reporting period as determined by the anniversary dates of the permits.	Rule 335-3-16-.05(c)
6. The Permittee shall submit each applicable report in Table 9 to Subpart JJJJJ.	40 CFR §63.8485

Summary Page for Crushing and Screening Operation

Permitted

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
EP-1 (BH-1)	Dry Pan Crusher and Screen – Line 1 Baghouse Exhaust	PM	Lesser of: 3.0 lb/hr or $E=3.59P^{0.62}$	Rule 335-3-14-.04 [Anti-PSD] Rule 335-3-4-.04(1)
EP-1 (BH-1)	Dry Pan Crusher and Screen – Line 1 Baghouse Exhaust	Opacity	20% (See General Proviso 29)	Rule 335-3-4-.01(1)
EP-2 (BH-2 & BH-3)	Dry Pan Crusher and Screen – Line 2 Baghouse & Fired Scrap Crusher Baghouse Common Exhaust	PM	Lesser of: 3.51 lb/hr or $E=3.59P^{0.62}$	Rule 335-3-14-.04 [Anti-PSD] Rule 335-3-4-.04(1)
EP-2 (BH-2 & BH-3)	Dry Pan Crusher and Screen – Line 2 Baghouse & Fired Scrap Crusher Baghouse Common Exhaust	Opacity	20% (See General Proviso 29)	Rule 335-3-4-.01(1)

Provisos for Crushing and Screening Operation

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-16, <i>"Major Source Operating Permits"</i> .	Rule 335-3-16-.03
2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01(1), <i>"Control of Particulate Emissions – Visible Emissions"</i> .	Rule 335-3-4-.01(1)
3. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04(1), <i>"Control of Particulate Emissions for Process Industries - General"</i> .	Rule 335-3-4-.04(1)
4. These sources have enforceable limits in place in order to prevent them from being subject to the provisions of ADEM Admin Code r. 335-3-14-.04, <i>"Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]"</i> .	Rule 335-3-14-.04 [Anti-PSD]
5. These units are subject to 40 CFR Part 64, <i>"Compliance Assurance Monitoring"</i> , to include General Permit Proviso No. 33.	40 CFR §64.2
<u>Emission Standards</u>	
1. The particulate matter emission rate from the baghouse associated with the Dry Pan Crushing and Screen- Line 1 (BH-1) shall not exceed the lesser of 3.0 lb/hr or the allowable set by the equations in ADEM Admin. Code r. 335-3-4-.04(1).	Rule 335-3-14-.04 [Anti-PSD] Rule 335-3-4-.04(1)
2. The combined particulate matter emission rate from the baghouse associated with the Dry Pan Crushing and Screen-Line 2 (BH-2) and the baghouse associated with the Fired Scrap Crusher (BH-3) shall not exceed the lesser of 3.51 lb/hr or the allowable set by the equations in ADEM Admin. Code r. 335-3-4-.04(1).	Rule 335-3-14-.04 [Anti-PSD] Rule 335-3-4-.04(1)
3. Visible emissions (VE) from these units shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-4-.01(1)
<u>Compliance and Performance Test Methods and Procedures</u>	
1. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate matter emissions.	Rule 335-3-1-.05
2. Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of the opacity.	Rule 335-3-1-.05
<u>Emission Monitoring</u>	

Federally Enforceable Provisos	Regulations
1. Emission monitoring requirements under 40 CFR Part 64, “ <i>Compliance Assurance Monitoring</i> ”, can be found in the Appendix.	40 CFR §§64.7 & 64.8
<u>Recordkeeping and Reporting Requirements</u>	
1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years from the date of generation.	Rule 335-3-16-.05(c)
2. Records of observation date, observation time, emission point designation, emission point operation mode, name of the observer, expiration date of the observer’s certification, observed opacity, and any corrective actions taken during each visible emissions observation shall be kept in a permanent form suitable for inspection.	40 CFR Part 64
3. If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emissions observation report. The Method 9 observation shall be conducted for a minimum of twelve (12) minutes.	40 CFR Part 64
4. Records of observation date, observation time, emission point designation, emission point operation mode, name of the observer, observed pressure drop (ΔP), and any corrective actions taken during each pressure drop (ΔP) observation shall be kept in a permanent form suitable for inspection.	40 CFR Part 64
5. A semi-annual monitoring report shall be submitted to the Department within sixty (60) days of the end of each semi-annual reporting period as determined by the anniversary dates of the permits. This report shall include summary information on the number, duration, and cause (including unknown cause, if applicable) of excursions or exceedances and the corrective actions taken.	Rule 335-3-16-.05(c)(3) 40 CFR Part 64

Summary Page for Storage Dryers

Permitted

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
EP-3, 4, & 5	Storage Dryer Exhausts	PM	E-3.50P ^{0.62}	Rule 335-3-4-.04(1)
EP-3, 4, & 5	Storage Dryer Exhausts	SO ₂	N/A	N/A
EP-3, 4, & 5	Storage Dryer Exhausts	VOC	N/A	N/A
EP-3, 4, & 5	Storage Dryer Exhausts	Opacity	20% (See General Proviso 29)	Rule 335-3-4-.01(1)

Provisos for Storage Dryers

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-16, " <i>Major Source Operating Permits</i> ".	Rule 335-3-16-.03
2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01(1), " <i>Control of Particulate Emissions – Visible Emissions</i> ".	Rule 335-3-4-.01(1)
3. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04(1), " <i>Control of Particulate Emissions for Process Industries - General</i> ".	Rule 335-3-4-.04(1)
<u>Emission Standards</u>	
1. Visible emissions (VE) from these units shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-4-.01(1)
2. The particulate matter emission rate from each emission point shall not exceed the allowable set by the equations in ADEM Admin. Code r. 335-3-4-.04(1).	Rule 335-3-4-.04(1)
<u>Compliance and Performance Test Methods and Procedures</u>	
1. Method 5 of 40 CFR Part 60, Appendix A, shall be used in the determination of particulate matter emissions.	Rule 335-3-1-.05
2. Method 9 of 40 CFR Part 60, Appendix A, shall be used in the determination of the opacity.	Rule 335-3-1-.05
<u>Emission Monitoring</u>	
1. The Permittee shall conduct a visual check of the stacks associated with these units at least weekly for visible emissions greater than 10%. If the instantaneous opacity exceeds 10%, maintenance inspections and/or corrective action to reduce the visible emissions are to be initiated within two (2) hours.	Rule 335-3-16-.05(c)
2. After the corrective action has been performed, the Permittee shall conduct another visual check to ensure that the visible emissions have been reduced.	Rule 335-3-16-.05(c)
<u>Recordkeeping and Reporting Requirements</u>	
1. Stack observations, corrective action, and all maintenance records of each source shall be documented. Each record shall be maintained in a form suitable for inspection for a period of at least five (5) years.	Rule 335-3-16-.05(c)

Federally Enforceable Provisos**Regulations**

2. A semi-annual monitoring report stating any exceedances of stack opacity and any deviations from work practice standards or, if there are no deviations, a statement that there were no deviations, shall be submitted to the Department within sixty (60) days of the end of each semi-annual reporting period as determined by the anniversary dates of the permits.

Rule 335-3-16-.05(c)

Summary Page for Chemical Flashing Operation

Permitted

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
EP-6	Chemical Flashing Lines 1 & 2 Scrubber Exhaust	PM	E-3.59P ^{0.62}	Rule 335-3-4-.04(1)
EP-6	Chemical Flashing Lines 1 & 2 Scrubber Exhaust	HAP	N/A	N/A
EP-6	Chemical Flashing Lines 1 & 2 Scrubber Exhaust	Opacity	20% (See General Proviso 29)	Rule 335-3-4-.01(1)

Provisos for Chemical Flashing Operation

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-16, <i>"Major Source Operating Permits"</i> .	Rule 335-3-16-.03
2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01(1), <i>"Control of Particulate Emissions – Visible Emissions"</i> .	Rule 335-3-4-.01(1)
3. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04(1), <i>"Control of Particulate Emissions for Process Industries - General"</i> .	Rule 335-3-4-.04(1)
<u>Emission Standards</u>	
1. Visible emissions (VE) from these units shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-4-.01(1)
2. The particulate matter emission rate from each emission point shall not exceed the allowable set by the equations in ADEM Admin. Code r. 335-3-4-.04(1).	Rule 335-3-4-.04(1)
<u>Compliance and Performance Test Methods and Procedures</u>	
1. Method 5 of 40 CFR Part 60, Appendix A, shall be used in the determination of particulate matter emissions.	Rule 335-3-1-.05
2. Method 9 of 40 CFR Part 60, Appendix A, shall be used in the determination of the opacity.	Rule 335-3-1-.05
<u>Emission Monitoring</u>	
1. The Permittee shall conduct a visual check of the stacks associated with these units at least weekly for visible emissions greater than 10%. If the instantaneous opacity exceeds 10%, maintenance inspections and/or corrective action to reduce the visible emissions are to be initiated within two (2) hours.	Rule 335-3-16-.05(c)
2. After the corrective action has been performed, the Permittee shall conduct another visual check to ensure that the visible emissions have been reduced.	Rule 335-3-16-.05(c)
3. A properly maintained and operated device shall be utilized to measure the pressure differential between the inlet and exhaust of the scrubber to determine if the pressure differential is within the manufacturer's recommended operating range. The pressure differential shall be checked on at least a weekly basis. Whenever a pressure differential is outside the manufacturer's recommended range, maintenance inspections and/or corrective	Rule 335-3-16-.05(c)

Federally Enforceable Provisos**Regulations**

action to bring the pressure differential within the manufacturer's recommended range are to be initiated within two (2) hours.

4. Each pollution control device shall be inspected and cleaned at least annually.

Rule 335-3-16-.05(c)

Recordkeeping and Reporting Requirements

1. Records of stack observations, corrective actions, and all inspection and maintenance records for each source shall be maintained in a form suitable for inspection for a period of at least five (5) years.

Rule 335-3-16-.05(c)

2. The facility shall maintain a record documenting the manufacturer's specified range, the pressure differential readings from each weekly check, any problems noted, and any corrective actions taken. Each record shall be maintained for a period of five years from the date of generation.

Rule 335-3-16-.05(c)

3. A semi-annual monitoring report stating any exceedances of stack opacity or pressure differential and any deviations from work practice standards or, if there are no deviations, a statement that there were no deviations, shall be submitted to the Department within sixty (60) days of the end of each semi-annual reporting period as determined by the anniversary dates of the permits.

Rule 335-3-16-.05(c)

Summary Page for Extrusion and Cutting

Permitted

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
F-E1	Extrusion Mill #1 and Cutting	VOC	N/A	N/A
F-E2	Extrusion Mill #2 and Cutting	VOC	N/A	N/A

Provisos for Extrusion and Cutting

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-16, <i>"Major Source Operating Permits"</i> .	Rule 335-3-16-.03
<u>Emission Standards</u>	
1. Except as provided in the General Permit Provisions of this Air Permit, no emission standards apply to these units.	N/A
<u>Compliance and Performance Test Methods and Procedures</u>	
1. There are no compliance and performance test methods or procedures applicable to these units.	N/A
<u>Emission Monitoring</u>	
1. There are no emissions monitoring requirements applicable to these units.	N/A
<u>Recordkeeping and Reporting Requirements</u>	
1. There are no recordkeeping or reporting requirements applicable to these units.	N/A

Summary Page for Feldspar Storage Silo

Permitted

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
FS	Feldspar Storage Silo Bin Vent	PM	E-3.59P ^{0.62}	Rule 335-3-4-.04
		Opacity	20% (See General Proviso 29)	Rule 335-3-4-.01(1)

Provisos for Feldspar Storage Silo

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16, " <i>Major Source Operating Permits</i> ".	Rule 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01(1), " <i>Control of Particulate Emissions – Visible Emissions</i> ".	Rule 335-3-4-.01(1)
3. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04(1), " <i>Control of Particulate Emissions for Process Industries – General</i> ".	Rule 335-3-4-.04(1)
<u>Emission Standards</u>	
1. Visible emissions (VE) from these units shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-4-.01(1)
2. The particulate matter emission rate from each emission point shall not exceed the allowable set by the equations in ADEM Admin. Code r. 335-3-4-.04(1).	Rule 335-3-4-.04(1)
<u>Compliance and Performance Test Methods and Procedures</u>	
1. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate matter emissions.	Rule 335-3-1-.05
2. Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of the opacity.	Rule 335-3-1-.05
<u>Emission Monitoring</u>	
1. The Permittee shall conduct a visual check of this unit while it is being loaded at least weekly for visible emissions greater than 10%. If the instantaneous opacity exceeds 10%, maintenance inspections and/or corrective action to reduce the visible emissions are to be initiated within two (2) hours, followed by an additional check to confirm the emissions have been reduced.	Rule 335-3-16-.05(c)
<u>Recordkeeping and Reporting Requirements</u>	
1. Records of source observations, corrective actions, and all maintenance for this unit shall be maintained in a form suitable for inspection for a period of at least five (5) years.	Rule 335-3-16-.05(c)

Federally Enforceable Provisos**Regulations**

2. A semi-annual monitoring report stating any exceedances of opacity and corrective actions taken shall be submitted to the Department within sixty (60) days of the end of each semi-annual reporting period as determined by the anniversary dates of the permits.

Rule 335-3-16-.05(c)

Summary Page for Tile Edge Grinder

Permitted

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
EP-10	Tile Edge Grinder with Baghouse	PM	Lesser of: 0.138 lb/ton (1.035 lb/hr) of raw material or E-3.59P ^{0.62}	Rule 335-3-14-.04 [Anti-PSD] Rule 335-3-4-.04(1)
		Opacity	20% (See General Proviso 29)	Rule 335-3-4-.01(1)

Provisos for Tile Edge Grinder

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16, " <i>Major Source Operating Permits</i> ".	Rule 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01(1), " <i>Control of Particulate Emissions – Visible Emissions</i> ".	Rule 335-3-4-.01(1)
3. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04(1), " <i>Control of Particulate Emissions for Process Industries – General</i> ".	Rule 335-3-4-.04(1)
4. This source has an enforceable limit in place in order to prevent it from being subject to the provisions of ADEM Admin. Code r. 335-3-14-.04, " <i>Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]</i> ".	Rule 335-3-14-.04 [Anti-PSD]
5. This source is subject to 40 CFR Part 64, " <i>Compliance Assurance Monitoring</i> ", to include General Permit Proviso No. 33.	40 CFR §64.2
<u>Emission Standards</u>	
1. Visible emissions (VE) from these units shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-4-.01(1)
2. The particulate matter emission rate from the Tile Edge Grinder Baghouse (EP-10) shall not exceed the lesser of 0.138 lb/ton (1.035 lb/hr) of raw material or the allowable set by the equations in ADEM Admin. Code r. 335-3-4-.04(1).	Rule 335-3-4-.04(1) Rule 335-3-14-.04 [Anti-PSD]
<u>Compliance and Performance Test Methods and Procedures</u>	
1. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate matter emissions.	Rule 335-3-1-.05
2. Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of the opacity.	Rule 335-3-1-.05
<u>Emission Monitoring</u>	
1. Emission monitoring requirements for the Tile Edge Grinder, as specified in 40 CFR 64, " <i>Compliance Assurance Monitoring</i> ", can be found in Appendix A.	40 CFR 64
2. The Permittee shall perform periodic inspections of the Tile Edge Grinder Baghouse to verify proper operation. The following activities shall be performed:	Rule 335-3-16-.05(c)

Federally Enforceable Provisos

Regulations

- (a) If visible emissions are noted at any time, appropriate corrective actions shall be taken to eliminate the observed emissions.
- (b) Once per month, check hopper fan, and cleaning cycle for proper operation.
- (c) Once per month, perform a visual check of all hoods and ductwork.
- (d) Record any repairs or observed problems.

Recordkeeping and Reporting Requirements

1. The Permittee shall maintain records of all monitoring required by this permit. This includes all problems observed and corrective actions taken. If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emissions observations report. The records shall be maintained in a form suitable for inspection and kept on site for a period of five (5) years from the date of generation.
2. A semi-annual monitoring report stating any exceedances of stack opacity or pressure differential and any deviations from work practice standards or, if there are no deviations, a statement that there were no deviations, shall be submitted to the Department within sixty (60) days of the end of each semi-annual reporting period as determined by the anniversary dates of the permits.

Rule 335-3-16-.05(c)

Rule 335-3-16-.05(c)

Summary Page for Emergency Reciprocating Internal Combustion Engine

Permitted

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Non-Emergency Use: 100 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
N/A	35 kW Spark Ignition Emergency Generator	PM	N/A	N/A
		SO ₂	N/A	N/A
		NO _x	N/A	N/A
		CO	N/A	N/A
		VOC	N/A	N/A
		Opacity	20% (See General Proviso)	Rule 335-3-4-.01(1)

Provisos for Emergency Reciprocating Internal Combustion Engine

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. This unit is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, <i>“Major Source Operating Permits”</i> .	Rule 335-3-16-.03
2. This unit is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01(1), <i>“Control of Particulate Emissions – Visible Emissions”</i> .	Rule 335-3-4-.01(1)
3. This unit is subject to the applicable requirements of 40 CFR Part 63, Subpart ZZZZ, <i>“National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines (RICE)”</i> .	Rule 335-3-11-.06(103) 40 CFR §63.6590(a)(1)(ii)
4. This unit is subject to the applicable requirements of Subpart A of 40 CFR Part 63, <i>“General Provisions”</i> , as listed in Table 8 of Subpart ZZZZ.	Rule 335-3-11-.06(1) 40 CFR §63.6665
<u>Emission Standards</u>	
1. Visible emissions from this unit shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-4-.01(1)
2. This unit is subject to the applicable requirements listed in Table 2c of 40 CFR 63 Subpart ZZZZ.	40 CFR §63.6602
3. The Permittee must operate and maintain this unit according to the manufacturer's emission-related written instructions or develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.	40 CFR §63.6625(e)(2)
4. This unit shall be equipped with a non-resettable hour meter.	40 CFR §63.6625(f)
5. This unit may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of this unit is limited to 100 hours per year. There is no time limit on the use of this unit in emergency situations.	40 CFR §63.6640(f)
The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or	40 CFR §63.6640(f)

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local standards require maintenance and testing of emergency ICE beyond 100 hours per year. This unit may operate up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply non-emergency power as part of a financial arrangement with another entity. Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as permitted in 40 CFR 63 Subpart ZZZZ, is prohibited.

- 6. During periods of startup, the facility must minimize the engine’s time spent at idle and minimize the engine’s startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

40 CFR §63.6625(h)
Subpart ZZZZ, Table 2c

Compliance and Performance Test Methods and Procedures

- 1. Method 9 of 40 CFR Part 60, Appendix A, shall be used in the determination of the opacity.

Rule 335-3-1-.05

Emission Monitoring

- 1. The facility must comply with the requirements of 40 CFR 63 Subpart ZZZZ Table 2c for emergency stationary SI RICE at a major source of HAP emissions. These requirements are:
 - (a) Change oil and filter every 500 hours of operation or annually, whichever comes first;
 - (b) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary.
 - (c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.Or utilize an oil analysis program as described in §63.6625(i)-(j).

40 CFR §63.6602
Subpart ZZZZ, Table 2c

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| <p>2. If an oil analysis program is utilized for a stationary spark ignition engine, the Permittee must perform the oil analysis at the same frequency specified above for changing the oil. The Permittee must at a minimum analyze the following parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new, viscosity of the oil when new, viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new, or percent water content (by volume) is greater than 0.5. If any of the limits are exceed, the Permittee must change the oil within 2 business days of receiving the results of the analysis or before commencing operation, whichever is later.</p> | 40 CFR §63.6625(i) |
| <p>3. If an oil analysis program is utilized for a stationary spark ignition engine, the Permittee must perform the oil analysis at the same frequency specified above for changing the oil. The Permittee must at a minimum analyze the following parameters: Total Acid Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Acid Number increases by more than 3.0 milligrams of potassium hydroxide (KOH) per gram form Total Acid Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If any of the limits are exceeded, the Permittee must change the oil within 2 business days of receiving the results of the analysis or before commencing operation, whichever is later.</p> | 40 CFR §63.6625(j) |

Recordkeeping and Reporting Requirements

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| <p>1. Records must be kept in a suitable form for review for five (5) years, following the date of each occurrence, measurement, maintenance, corrective action, report, or record.</p> | 40 CFR §63.6660(b) |
| <p>2. The Permittee must keep records of the parameters that are analyzed as part of the oil analysis program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.</p> | 40 CFR §63.6625(i)&(j) |
| <p>3. The Permittee must keep records of the maintenance conducted on this unit in order to demonstrate that the operation and maintenance of this unit and after-treatment control devices (if any) are conducted according to the facility's maintenance plan or according to manufacturer's written instructions.</p> | 40 CFR §63.6655(e) |
| <p>4. The Permittee must keep records of the hours of operation of each engine that is recorded through a non-resettable hour meter. The facility must document how many hours are spent for emergency operation, including what classified the operation</p> | 40 CFR §63.6655(f) |

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as emergency, and how many hours are spent for non-emergency operation. If the unit is used for emergency purposes, the facility must keep records of the notification of the emergency situation and the date, start time, and end time of engine operation for these purposes.

APPENDIX

40 CFR 64

Compliance Assurance Monitoring (CAM) Requirements

CAM Plan for Baghouses at Emissions Points EP-1 and EP-2

	Parameter No.1	Parameter No. 2
I. Indicator	Visible Emissions (VE)	Pressure Differential (ΔP)
A. Measurement Approach	1. Trained and qualified personnel shall perform a daily VE inspection. If instantaneous visible emissions in excess of ten (10%) percent opacity are observed, a visible emissions observation shall be conducted within 30 minutes in accordance with 40 CFR 60, Appendix A, Method 9.	1. A properly maintained and operated device shall be utilized to measure ΔP across each baghouse daily. The device shall be located at eye level and be easily accessible for inspections by Air Division and plant personnel.
II. Indicator Range	<p>1. While the unit is in operation, an excursion is defined as an average opacity during the Method 9 visible emission observation which exceeds ten (10%) percent.</p> <p>2. Excursions trigger an inspection, corrective action, and a reporting requirement.</p> <p>3. Corrective action must be initiated within two (2) hours following an excursion.</p>	<p>1. While the baghouses controlling Crusher Lines No. 1 and Line #2 are operating, an excursion is defined as a ΔP of less than 3.0 inches H₂O or greater than 6.0 inches H₂O.</p> <p>2. Excursions trigger an inspection, corrective action, and a reporting requirement.</p> <p>3. When a pressure drop excursion occurs, corrective action must be initiated within two (2) hours to identify and correct the problem.</p>
III. Performance Criteria		
A. Data Representativeness	1. Inspections shall be made at the baghouse. Visual observations performed at emission points (baghouse exhaust stack EP-1 & EP-2).	1. ΔP on gauge is the measurement of the pressure differential between inlet and outlet of the baghouse. The minimum accuracy of the device is ± 0.5 in. H ₂ O.

B. Verification of Operating Status	N/A	N/A
(2) QA/QC Practices and Criteria	1. Trained and qualified personnel shall perform the visible inspection.	1. The differential pressure gauge shall be calibrated annually. Pressure taps checked weekly for plugging.
C. Monitoring Frequency	1. Visible emissions observation shall be made daily while each unit is in operation.	1. ΔP is measured daily while each unit is in operation.
D. Data Collection Procedures	1. Manual log entries based on daily VE observation. Observation will be recorded along with the date, time, emission point designation, name of the observer, expiration date of observer's certification, observed opacity, and any corrective actions taken. An inspection and cleaning of baghouse shall be done at least annually. Any required maintenance shall be recorded and maintained on site.	1. Manual log entries based on gauge readings. ΔP will be recorded daily along with the date, time, and name of the observer.
E. Averaging Period	1. VE observations are instantaneous. If a Method 9 is required, then observations are a six (6) minute average.	1. ΔP readings are instantaneous.

CAM Plan for Baghouse at Tile Edge Grinder (EP-10)

	Parameter No.1	Parameter No. 2
<u>I. Indicator</u>	Visible Emissions (VE)	Pressure Differential (ΔP)
B. Measurement Approach	1. Trained and qualified personnel shall perform a weekly VE inspection. If instantaneous visible emissions in excess of ten (10%) percent opacity are observed, a visible emissions observation shall be conducted within 30 minutes in accordance with 40 CFR 60, Appendix A, Method 9.	1. A properly maintained and operated device shall be utilized to measure ΔP across each baghouse weekly. The device shall be located at eye level and be easily accessible for inspections by Air Division and plant personnel.
<u>II. Indicator Range</u>	<p>1. While the unit is in operation, an excursion is defined as an average opacity during the Method 9 visible emission observation which exceeds ten (10%) percent.</p> <p>2. Excursions trigger an inspection, corrective action, and a reporting requirement.</p> <p>3. Corrective action must be initiated within two (2) hours following an excursion.</p>	<p>1. While the baghouse controlling the Tile Edge Grinder is operating, an excursion is defined as a ΔP of less than 1.0 inches H₂O or greater than 6.0 inches H₂O.</p> <p>2. Excursions trigger an inspection, corrective action, and a reporting requirement.</p> <p>3. When a pressure drop excursion occurs, corrective action must be initiated within two (2) hours to identify and correct the problem.</p>
<u>III. Performance Criteria</u>		
F. Data Representativeness	1. Inspections shall be made at the baghouse. Visual observations performed at emission point (baghouse exhaust stack).	1. ΔP on gauge is the measurement of the pressure differential between inlet and outlet of the baghouse. The minimum accuracy of

		the device is ± 0.5 in. H ₂ O.
G. Verification of Operating Status	N/A	N/A
(3) QA/QC Practices and Criteria	1. Trained and qualified personnel shall perform the visible inspection.	1. The differential pressure gauge shall be calibrated quarterly. Pressure taps checked weekly for plugging.
H. Monitoring Frequency	1. Visible emissions observation shall be made weekly while each unit is in operation.	1. ΔP is measured weekly while each unit is in operation.
I. Data Collection Procedures	1. Manual log entries based on weekly VE observation. Observation will be recorded along with the date, time, emission point designation, name of the observer, expiration date of observer's certification, observed opacity, and any corrective actions taken. An inspection and cleaning of baghouse shall be done at least annually. Any required maintenance shall be recorded and maintained on site.	1. Manual log entries based on gauge readings. ΔP will be recorded weekly along with the date, time, and name of the observer.
J. Averaging Period	1. VE observations are instantaneous. If a Method 9 is required, then observations are a six (6) minute average.	1. ΔP readings are instantaneous.